

CLAIM AMENDMENTS

1. (Currently amended) A device for air supply of a fuel cell comprising:  
an expander, ~~and~~  
a compressor that is at least partially driven thereby,  
a burner producing hot gases of combustion that at least occasionally  
~~flowing~~ flow through the expander, and  
~~wherein a heat exchanger disposed between the expander and the burner~~  
that transfers at least a portion of thermal residual energy remaining in the hot  
gases, after flowing through the expander, ~~emit at least part of the thermal~~  
~~residual energy remaining in them~~ to at least one of the fuel flows supplied for  
combustion.

2. (Currently amended) The device as described in Claim 1, wherein the  
heat exchanger receives exhaust gases after the expander ~~flow through a heat~~  
~~exchanger through which~~ as well as air ~~also~~ that flows through the heat  
exchanger for combustion.

3. (Original) The device as described in Claim 1, wherein the compressor  
and the expander are configured as one component, and wherein at least one of  
the compressor and the expander has at least one device by which a medium  
flowing in, out, or both in and out can be influenced.

4. (Original) The device as described in Claim 3, wherein the expander is configured as a turbine having a variable turbine guide screen.

5. (Original) The device as described in Claim 3, wherein the compressor is configured with a variable diffuser.

6. (Currently amended) The device as described in Claim 1, wherein the combustion takes place in ~~[[a]]~~ the burner.

7. (Original) The device as described in Claim 6, wherein the burner is configured as a catalytic burner.

8. (Original) The device as described in Claim 1, wherein the combustion is configured as combustion of a fuel that is supplied directly or indirectly to the fuel cell.

9. (Currently amended) The device as described in Claim 1, wherein, at least during occasional phases of operation of the device, the hot ~~gases, after they have emitted at least a part of the residual energy contained in them after the expander to the~~ at least one of the fuel flows supplied for combustion, gases emit additional residual thermal energy remaining in them to a cooling medium for the fuel cell after said portion of thermal energy is transformed.

10. (Currently amended) The device as described in Claim 9, and further comprising ~~[[a]]~~ an additional heat exchanger, which is disposed ~~directly or indirectly~~ in the exhaust gas flow after the expander, adapted to emit additional remaining residual thermal energy to the cooling medium for the fuel cell.

11. (Original) The use of a device as described in Claim 1 in a mobile fuel cell system.

12. (Original) The device as described in Claim 3, wherein the at least one device is a variable turbine screen guide.

13. (Original) The device as described in Claim 3, wherein the at least one device is a variable diffuser.

14. (Currently amended) A mobile fuel cell system having a device for air supply of a fuel cell comprising:

an expander, ~~and~~

a compressor that is at least partially driven thereby,

a burner producing hot gases of combustion that at least occasionally ~~flowing~~ flow through the expander, and

wherein a heat exchanger disposed between the expander and the burner that transfers at least a portion of thermal residual energy remaining in the hot gases, after flowing through the expander, ~~emit at least part of the thermal~~

~~residual energy remaining in them~~ to at least one of the fuel flows supplied for combustion.

15. (Currently amended) The mobile fuel cell system as described in Claim 14, wherein the heat exchanger receives exhaust gases after the expander ~~flow through a heat exchanger through which~~ as well as air also ~~that~~ flows through the heat exchanger for combustion.

16. (Original) The mobile fuel cell system as described in Claim 14, wherein the compressor and the expander are configured as one component, and wherein at least one of the compressor and the expander has at least one device by which a medium flowing in, out, or both in and out can be influenced.

17. (Original) The mobile fuel cell system as described in Claim 16, wherein the expander is configured as a turbine having a variable turbine guide screen.

18. (Original) The mobile fuel cell system as described in Claim 16, wherein the compressor is configured with a variable diffuser.

19. (Currently amended) The mobile fuel cell system as described in Claim 1, wherein the combustion takes place in ~~[[a]]~~ the burner.

20. (Original) The mobile fuel cell system as described in Claim 19, wherein the burner is configured as a catalytic burner.

21. (Original) The mobile fuel cell system as described in Claim 14, wherein the combustion is configured as combustion of a fuel that is supplied directly or indirectly to the fuel cell.

22. (Currently amended) The mobile fuel cell system as described in Claim 14, wherein, at least during occasional phases of operation of the device, the hot ~~gases, after they have emitted at least a part of the residual energy contained in them after the expander to the at least one of the fuel flows supplied for combustion,~~ gases emit additional residual thermal energy remaining in them to a cooling medium for the fuel cell after said portion of thermal energy is transferred.

23. (Currently amended) The mobile fuel cell system as described in Claim 22, and further comprising ~~[[a]]~~ an additional heat exchanger, which is disposed ~~directly or indirectly~~ in the exhaust gas flow after the expander, adapted to emit additional remaining residual thermal energy to the cooling medium for the fuel cell.

24. (Original) The mobile fuel cell system as described in Claim 16, wherein the at least one device is a variable turbine screen guide.

25. (Original) The mobile fuel cell system as described in Claim 16, wherein the at least one device is a variable diffuser.